**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 842 | ((JOSEPH) near2 (MARK)).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L2 | 859 | 600/562.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L3 | 73 | 600/563.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L4 | 957 | 600/564.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L5 | 218 | 600/565.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L6 | 401 | 600/566.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L7 | 76 | 600/571.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L8 | 355 | 604/284.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |

| L9 | 11 | ("2866457" \| "20020082519" \| "3844272" \| "5335671" \| "5403276" \| "5868785" \| "6197005" \| "6273862" \| "6331165").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2011/05/19 08:07 |
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| L10 | 64 | ((JOSEPH) near2 (MARK)).INV. and biopsy | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L11 | 38 | ((JOSEPH) near2 (MARK)).INV. and biopsy and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L12 | 15 | ((JOSEPH) near2 (MARK)).INV. and (biopsy and valve).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L13 | 0 | ((JOSEPH) near2 (MARK)).INV. and (biopsy and valve and check).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L14 | 197 | ("20010014785" \| "3401684" \| "3561429" \| "3815604" \| "3937222" \| "3938505" \| "3945375" \| "3994297" \| "4007742" \| "4019514" \| "4117843" \| "4167943" \| "4167944" \| "4210146" \| "4246902" \| "4257425" \| "4368734" \| "4513745" \| "4530356" \| "4549554" \| "4562838" \| "4644951" \| "4650472" \| "4651753" \| "4696298" \| "4708147" \| "4817631" \| "4850373" \| "4907598" \| "4919146" \| "4926877" \| "4985027" \| "5027827" \| "5074311" \| "5106364" \| "5172701" \| "5183052" \| "5213110" \| "5273051" \| "5285795" \| "5295980" \| "5348022" \| "5370651" \| "5403276" \| "5411513" \| "5423844" \| "5429138" \| "5431673" \| "5456267" \| "5458112" \| "5464300" \| "5520635" \| "5526822" \| "5575293" \| "5580347" \| "5620415" \| "5620447" \| "5643304" \| "5649547" \| "5669876" \| "5669923" \| "5669926" \| "5685840" \| "5700253" \| "5730717" \| "5741261" \| "5755731" \| "5769086" \| "5775333" \| "5782849" \| "5788651" \| "5794626" \| "5797907" \| "5800389" \| "5810806" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |

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| L15 | 134 | L14 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L16 | 0 | L15 and (vlave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L17 | 42 | L15 and (valve) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L18 | 89 | ("3659607" \| "3693613" \| "3732858" \| "3901231" \| "4016882" \| "4168707" \| "4190059" \| "4315520" \| "4320761" \| "4428748" \| "4517963" \| "4705500" \| "4757814" \| "4764165" \| "4817599" \| "4832685" \| "4946434" \| "5026387" \| "5053002" \| "5062774" \| "5157603" \| "5188102" \| "5209719" \| "5211625" \| "5242404" \| "5526822" \| "5649547" \| "5697898" \| "5775333" \| "5885261"). | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |

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| | | PN. OR ("2001/0014785" \| "5580347" \| "6162187"). URPN. | | | | |
| L19 | 39726 | @ad< "20040225" and biopsy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L20 | 205 | @ad< "20040225" and biopsy and ("check valve") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L21 | 111 | @ad< "20040225" and biopsy and ("check valve") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L22 | 22 | @ad< "20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L23 | 54 | L18 and @ad< "20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L24 | 29 | L18 and @ad< "20040225" and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L25 | 9 | (US-20010014785-$).did. or (US-6638235-$ or US-5580347-$ or US-6162187-$ or US-4598698-$ or US-4750902-$ or US-4168707-$ or US-4832685-$ or US-5885261-$).did. | US-PGPUB; USPAT | OR | ON | 2011/05/19 08:07 |

| L26 | 6 | L25 and (check) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
|---|---|---|---|---|---|---|
| L27 | 0 | L25 and (check) and luer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L28 | 5070 | 600/300.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L29 | 112 | 600/560.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L30 | 1038 | 600/561.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L31 | 1522 | 600/573.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L32 | 735 | 600/576.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L33 | 517 | 600/577.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |

| L34 | 342 | 600/578.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
|-----|-----|----------------|-----------|----|----|-----------|
| L35 | 225 | 600/579.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L36 | 682 | 600/101.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L37 | 225 | 600/131.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L38 | 5051 | @ad<"20040225" and biopsy and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L39 | 459 | @ad<"20040225" and biopsy and valve and ("duckbill" diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L40 | 46 | @ad<"20040225" and biopsy and valve and ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L41 | 43 | @ad<"20040225" and biopsy and valve same ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |

| L42 | 43 | @ad<"20040225" and biopsy and valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
|---|---|---|---|---|---|---|
| L43 | 0 | @ad<"20040225" and biopsy same valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L44 | 25 | @ad<"20040225" and biopsy and valve with ("duckbill") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L45 | 3 | @ad<"20040225" and biopsy and valve with ("duckbill") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L46 | 2 | @ad<"20040225" and biopsy and valve with ("duckbill") with vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L47 | 842 | ((JOSEPH) near2 (MARK)).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L48 | 859 | 600/562.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L49 | 73 | 600/563.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L50 | 957 | 600/564.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |

| L51 | 218 | 600/565.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
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| L52 | 401 | 600/566.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L53 | 76 | 600/571.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L54 | 355 | 604/284.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L55 | 11 | ("2866457" \| "20020082519" \| "3844272" \| "5335671" \| "5403276" \| "5868785" \| "6197005" \| "6273862" \| "6331165").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L56 | 64 | (((JOSEPH) near2 (MARK)).INV. and biopsy | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L57 | 38 | (((JOSEPH) near2 (MARK)).INV. and biopsy and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L58 | 15 | (((JOSEPH) near2 (MARK)).INV. and (biopsy and valve).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L59 | 0 | (((JOSEPH) near2 (MARK)).INV. and (biopsy and valve and check).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |

| L60 | 197 | ("20010014785" \| "3401684" \| "3561429" \| "3815604" \| "3937222" \| "3938505" \| "3945375" \| "3994297" \| "4007742" \| "4019514" \| "4117843" \| "4167943" \| "4167944" \| "4210146" \| "4246902" \| "4257425" \| "4368734" \| "4513745" \| "4530356" \| "4549554" \| "4562838" \| "4644951" \| "4650472" \| "4651753" \| "4696298" \| "4708147" \| "4817631" \| "4850373" \| "4907598" \| "4919146" \| "4926877" \| "4985027" \| "5027827" \| "5074311" \| "5106364" \| "5172701" \| "5183052" \| "5213110" \| "5273051" \| "5285795" \| "5295980" \| "5348022" \| "5370651" \| "5403276" \| "5411513" \| "5423844" \| "5429138" \| "5431673" \| "5456267" \| "5458112" \| "5464300" \| "5520635" \| "5526822" \| "5575293" \| "5580347" \| "5620415" \| "5620447" \| "5643304" \| "5649547" \| "5669876" \| "5669923" \| "5669926" \| "5685840" \| "5700253" \| "5730717" \| "5741261" \| "5755731" \| "5769086" \| "5775333" \| "5782849" \| "5788651" \| "5794626" \| "5797907" \| "5800389" \| "5810806" \| "5843111" \| "5848978" \| "5851212" \| "5893862" \| "5911701" \| "5913857" \| "5916229" \| "5928164" \| "5928218" \| "5944673" \| "5964716" \| "5980469" \| "5980546" \| "5989196" \| "5997560" \| "6007497" \| "6012494" \| "6017316" \| "6019733" \| "6019743" \| "6048339" \| "6050955" \| "6056700" \| "6077230" \| "6080113" \| "6085749" \| "6086544" \| "6096042" \| "6120462" \| "6120463" \| "6142955" \| "6162187" \| "6193673" \| "6251120" \| "6293957" \| "6296624" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
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| | | "6461350" \| "RE33258"). PN. OR ("2002/0082519" \| "6419641" \| "6638235"). URPN. | | | | |
| L61 | 134 | L60 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L62 | 0 | L61 and (vlave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L63 | 42 | L61 and (valve) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L64 | 89 | ("3659607" \| "3693613" \| "3732858" \| "3901231" \| "4016882" \| "4168707" \| "4190059" \| "4315520" \| "4320761" \| "4428748" \| "4517963" \| "4705500" \| "4757814" \| "4764165" \| "4817599" \| "4832685" \| "4946434" \| "5026387" \| "5053002" \| "5062774" \| "5157603" \| "5188102" \| "5209719" \| "5211625" \| "5242404" \| "5526822" \| "5649547" \| "5697898" \| "5775333" \| "5885261"). PN. OR ("2001/0014785" \| "5580347" \| "6162187"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/05/19 08:07 |
| L65 | 39726 | @ad<"20040225" and biopsy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |
| L66 | 205 | @ad<"20040225" and biopsy and ("check valve") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:07 |

| L67 | 111 | @ad<"20040225" and biopsy and ("check valve") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L68 | 22 | @ad<"20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L69 | 54 | L64 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L70 | 29 | L64 and @ad<"20040225" and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L71 | 9 | (US-20010014785-$).did. or (US-6638235-$ or US-5580347-$ or US-6162187-$ or US-4598698-$ or US-4750902-$ or US-4168707-$ or US-4832685-$ or US-5885261-$).did. | US-PGPUB; USPAT | OR | ON | 2011/05/19 08:08 |
| L72 | 6 | L71 and (check) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L73 | 0 | L71 and (check) and luer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L74 | 5070 | 600/300.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |

| L75 | 112 | 600/560.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
|-----|-----|----------------|----------------------------------------------------------|----|----|------------------|
| L76 | 1038 | 600/561.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L77 | 1522 | 600/573.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L78 | 735 | 600/576.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L79 | 517 | 600/577.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L80 | 342 | 600/578.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L81 | 225 | 600/579.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L82 | 682 | 600/101.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |

| L83 | 225 | 600/131.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
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| L84 | 5051 | @ad<"20040225" and biopsy and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L85 | 459 | @ad<"20040225" and biopsy and valve and ("duckbill" diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L86 | 46 | @ad<"20040225" and biopsy and valve and ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L87 | 43 | @ad<"20040225" and biopsy and valve same ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L88 | 43 | @ad<"20040225" and biopsy and valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L89 | 0 | @ad<"20040225" and biopsy same valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L90 | 25 | @ad<"20040225" and biopsy and valve with ("duckbill") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |

| L91 | 3 | @ad< "20040225" and biopsy and valve with ("duckbill") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
|-----|---|---|---|---|---|---|
| L92 | 2 | @ad< "20040225" and biopsy and valve with ("duckbill") with vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
| L93 | 35 | (US-20020082519-$ or US-20010014785-$ or US-20040147813-$).did. or (US-6419641-$ or US-6638235-$ or US-3815604-$ or US-4007742-$ or US-4019514-$ or US-4246902-$ or US-5403276-$ or US-5580347-$ or US-5643304-$ or US-5843111-$ or US-5980546-$ or US-6007497-$ or US-6017316-$ or US-6086544-$ or US-6162187-$ or US-6296624-$ or US-4598698-$ or US-4750902-$ or US-5395379-$ or US-4168707-$ or US-4190059-$ or US-4757814-$ or US-4832685-$ or US-4946434-$ or US-5242404-$ or US-5697898-$).did. or (US-5885261-$ or US-6083195-$ or US-6273862-$ or US-5167636-$ or US-5282790-$ or US-5505210-$).did. | US-PGPUB; USPAT | OR | ON | 2011/05/19 08:08 |
| L94 | 4 | L93 and @ad< "20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |

| L95 | 51 | @ad<"20040225" and biopsy and valve and ("Y" with (connector bifurcat $4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/05/19 08:08 |
|-----|-----|-----|-----|-----|-----|-----|
| S1 | 615 | (((JOSEPH) near2 (MARK)).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/08/15 08:46 |
| S2 | 666 | 600/562.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S3 | 57 | 600/563.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S4 | 792 | 600/564.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S5 | 160 | 600/565.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S6 | 278 | 600/566.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S7 | 65 | 600/571.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |
| S8 | 327 | 604/284.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/08/15 08:48 |

| S9 | 11 | ("2866457" \| "20020082519" \| "3844272" \| "5335671" \| "5403276" \| "5868785" \| "6197005" \| "6273862" \| "6331165").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2008/08/15 08:48 |
|---|---|---|---|---|---|---|
| S10 | 52 | ((JOSEPH) near2 (MARK)). INV. and biopsy | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/27 08:44 |
| S11 | 31 | ((JOSEPH) near2 (MARK)). INV. and biopsy and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/27 08:45 |
| S12 | 13 | ((JOSEPH) near2 (MARK)). INV. and (biopsy and valve).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/27 08:50 |
| S13 | 0 | ((JOSEPH) near2 (MARK)). INV. and (biopsy and valve and check).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/27 08:50 |
| S14 | 141 | ("20010014785" \| "3401684" \| "3561429" \| "3815604" \| "3937222" \| "3938505" \| "3945375" \| "3994297" \| "4007742" \| "4019514" \| "4117843" \| "4167943" \| "4167944" \| "4210146" \| "4246902" \| "4257425" \| "4368734" \| "4513745" \| "4530356" \| "4549554" \| "4562838" \| "4644951" \| "4650472" \| "4651753" \| "4696298" \| "4708147" \| "4817631" \| "4850373" \| "4907598" \| "4919146" \| "4926877" \| "4985027" \| "5027827" \| "5074311" \| "5106364" \| "5172701" \| "5183052" \| "5213110" \| "5273051" \| "5285795" \| "5295980" \| "5348022" \| "5370651" \| "5403276" \| "5411513" \| "5423844" \| "5429138" \| "5431673" \| "5456267" \| "5458112" \| "5464300" \| "5520635" \| "5526822" \| "5575293" \| "5580347" \| "5620415" \| "5620447" \| "5643304" \| "5649547" \| "5669876" \| "5669923" \| "5669926" \| "5685840" \| "5700253" \| "5730717" \| "5741261" \| "5755731" \| "5769086" \| "5775333" \| "5782849" \| "5788651" \| "5794626" \| "5797907" \| "5800389" \| "5810806" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/27 09:21 |

| | | "5843111" \| "5848978" \|<br>"5851212" \| "5893862" \|<br>"5911701" \| "5913857" \|<br>"5916229" \| "5928164" \|<br>"5928218" \| "5944673" \|<br>"5964716" \| "5980469" \|<br>"5980546" \| "5989196" \|<br>"5997560" \| "6007497" \|<br>"6012494" \| "6017316" \|<br>"6019733" \| "6019743" \|<br>"6048339" \| "6050955" \|<br>"6056700" \| "6077230" \|<br>"6080113" \| "6085749" \|<br>"6086544" \| "6096042" \|<br>"6120462" \| "6120463" \|<br>"6142955" \| "6162187" \|<br>"6193673" \| "6251120" \|<br>"6293957" \| "6296624" \|<br>"6461350" \| "RE33258").<br>PN. OR ("2002/0082519"<br>\| "6419641" \| "6638235").<br>URPN. | | | | |
|---|---|---|---|---|---|---|
| S15 | 125 | S14 and<br>@ad< "20040225" | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/27<br>09:21 |
| S16 | 0 | S15 and (vlave) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/27<br>09:21 |
| S17 | 40 | S15 and (valve) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/10/27<br>09:21 |
| S18 | 63 | ("3659607" \| "3693613" \|<br>"3732858" \| "3901231" \|<br>"4016882" \| "4168707" \|<br>"4190059" \| "4315520" \|<br>"4320761" \| "4428748" \|<br>"4517963" \| "4705500" \|<br>"4757814" \| "4764165" \|<br>"4817599" \| "4832685" \|<br>"4946434" \| "5026387" \|<br>"5053002" \| "5062774" \|<br>"5157603" \| "5188102" \|<br>"5209719" \| "5211625" \|<br>"5242404" \| "5526822" \|<br>"5649547" \| "5697898" \|<br>"5775333" \| "5885261"). | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/10/27<br>09:37 |

| | | PN. OR ("2001/0014785" \| "5580347" \| "6162187"). URPN. | | | | |
|---|---|---|---|---|---|---|
| S19 | 39073 | @ad<"20040225" and biopsy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:37 |
| S20 | 197 | @ad<"20040225" and biopsy and ("check valve") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:37 |
| S21 | 107 | @ad<"20040225" and biopsy and ("check valve") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:38 |
| S22 | 22 | @ad<"20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:38 |
| S23 | 53 | S18 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:54 |
| S24 | 29 | S18 and @ad<"20040225" and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 09:54 |
| S25 | 9 | (US-20010014785-$).did. or (US-6638235-$ or US-5580347-$ or US-6162187-$ or US-4598698-$ or US-4750902-$ or US-4168707-$ or US-4832685-$ or US-5885261-$).did. | US-PGPUB; USPAT | OR | ON | 2009/10/27 10:48 |

| S26 | 6 | S25 and (check) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 10:48 |
|-----|---|-----------------|-----------------------------------------------------------|----|----|-------------------|
| S27 | 0 | S25 and (check) and luer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 10:48 |
| S28 | 4353 | 600/300.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:00 |
| S29 | 107 | 600/560.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:00 |
| S30 | 945 | 600/561.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:00 |
| S31 | 1375 | 600/573.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:01 |
| S32 | 685 | 600/576.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:01 |
| S33 | 504 | 600/577.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:01 |

| S34 | 324 | 600/578.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:01 |
|-----|-----|---------------|------|----|----|------|
| S35 | 212 | 600/579.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 08:01 |
| S36 | 573 | 600/101.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:29 |
| S37 | 198 | 600/131.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:29 |
| S38 | 4947 | @ad<"20040225" and biopsy and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:50 |
| S39 | 444 | @ad<"20040225" and biopsy and valve and ("duckbill" diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:51 |
| S40 | 46 | @ad<"20040225" and biopsy and valve and ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:51 |
| S41 | 43 | @ad<"20040225" and biopsy and valve same ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:51 |

| S42 | 43 | @ad< "20040225" and biopsy and valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:51 |
| S43 | 0 | @ad< "20040225" and biopsy same valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:51 |
| S44 | 25 | @ad< "20040225" and biopsy and valve with ("duckbill") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:53 |
| S45 | 3 | @ad< "20040225" and biopsy and valve with ("duckbill") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:53 |
| S46 | 2 | @ad< "20040225" and biopsy and valve with ("duckbill") with vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/30 09:53 |
| S47 | 817 | ((JOSEPH) near2 (MARK)). INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |
| S48 | 811 | 600/562.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S49 | 69 | 600/563.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S50 | 936 | 600/564.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |

| S51 | 212 | 600/565.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
|---|---|---|---|---|---|---|
| S52 | 378 | 600/566.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S53 | 76 | 600/571.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S54 | 349 | 604/284.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S55 | 11 | ("2866457" \| "20020082519" \| "3844272" \| "5335671" \| "5403276" \| "5868785" \| "6197005" \| "6273862" \| "6331165").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S56 | 61 | (((JOSEPH) near2 (MARK)).INV. and biopsy | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |
| S57 | 36 | (((JOSEPH) near2 (MARK)).INV. and biopsy and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |
| S58 | 14 | (((JOSEPH) near2 (MARK)).INV. and (biopsy and valve).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |
| S59 | 0 | (((JOSEPH) near2 (MARK)).INV. and (biopsy and valve and check).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |

| S60 | 180 | ("20010014785" \| "3401684" \| "3561429" \| "3815604" \| "3937222" \| "3938505" \| "3945375" \| "3994297" \| "4007742" \| "4019514" \| "4117843" \| "4167943" \| "4167944" \| "4210146" \| "4246902" \| "4257425" \| "4368734" \| "4513745" \| "4530356" \| "4549554" \| "4562838" \| "4644951" \| "4650472" \| "4651753" \| "4696298" \| "4708147" \| "4817631" \| "4850373" \| "4907598" \| "4919146" \| "4926877" \| "4985027" \| "5027827" \| "5074311" \| "5106364" \| "5172701" \| "5183052" \| "5213110" \| "5273051" \| "5285795" \| "5295980" \| "5348022" \| "5370651" \| "5403276" \| "5411513" \| "5423844" \| "5429138" \| "5431673" \| "5456267" \| "5458112" \| "5464300" \| "5520635" \| "5526822" \| "5575293" \| "5580347" \| "5620415" \| "5620447" \| "5643304" \| "5649547" \| "5669876" \| "5669923" \| "5669926" \| "5685840" \| "5700253" \| "5730717" \| "5741261" \| "5755731" \| "5769086" \| "5775333" \| "5782849" \| "5788651" \| "5794626" \| "5797907" \| "5800389" \| "5810806" \| "5843111" \| "5848978" \| "5851212" \| "5893862" \| "5911701" \| "5913857" \| "5916229" \| "5928164" \| "5928218" \| "5944673" \| "5964716" \| "5980469" \| "5980546" \| "5989196" \| "5997560" \| "6007497" \| "6012494" \| "6017316" \| "6019733" \| "6019743" \| "6048339" \| "6050955" \| "6056700" \| "6077230" \| "6080113" \| "6085749" \| "6086544" \| "6096042" \| "6120462" \| "6120463" \| "6142955" \| "6162187" \| "6193673" \| "6251120" \| "6293957" \| "6296624" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | "6461350" \| "RE33258"). PN. OR ("2002/0082519" \| "6419641" \| "6638235"). URPN. | | | | |
| S61 | 133 | S60 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S62 | 0 | S61 and (vlave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S63 | 42 | S61 and (valve) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S64 | 80 | ("3659607" \| "3693613" \| "3732858" \| "3901231" \| "4016882" \| "4168707" \| "4190059" \| "4315520" \| "4320761" \| "4428748" \| "4517963" \| "4705500" \| "4757814" \| "4764165" \| "4817599" \| "4832685" \| "4946434" \| "5026387" \| "5053002" \| "5062774" \| "5157603" \| "5188102" \| "5209719" \| "5211625" \| "5242404" \| "5526822" \| "5649547" \| "5697898" \| "5775333" \| "5885261"). PN. OR ("2001/0014785" \| "5580347" \| "6162187"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/12/01 09:30 |
| S65 | 39612 | @ad<"20040225" and biopsy | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S66 | 203 | @ad<"20040225" and biopsy and ("check valve") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |

| S67 | 111 | @ad<"20040225" and biopsy and ("check valve") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
|-----|-----|------|------|-----|-----|------|
| S68 | 22 | @ad<"20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S69 | 54 | S64 and @ad<"20040225" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S70 | 29 | S64 and @ad<"20040225" and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S71 | 9 | (US-20010014785-$).did. or (US-6638235-$ or US-5580347-$ or US-6162187-$ or US-4598698-$ or US-4750902-$ or US-4168707-$ or US-4832685-$ or US-5885261-$).did. | US-PGPUB; USPAT | OR | ON | 2010/12/01 09:30 |
| S72 | 6 | S71 and (check) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S73 | 0 | S71 and (check) and luer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S74 | 4861 | 600/300.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |

| S75 | 108 | 600/560.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
|-----|------|---------------|----------------------------------------------------------|-----|-----|------------------|
| S76 | 1017 | 600/561.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S77 | 1470 | 600/573.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S78 | 726 | 600/576.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S79 | 514 | 600/577.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S80 | 334 | 600/578.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S81 | 218 | 600/579.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S82 | 649 | 600/101.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |

| S83 | 212 | 600/131.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S84 | 5032 | @ad< "20040225" and biopsy and valve | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S85 | 455 | @ad< "20040225" and biopsy and valve and ("duckbill" diaphragm) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S86 | 46 | @ad< "20040225" and biopsy and valve and ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S87 | 43 | @ad< "20040225" and biopsy and valve same ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S88 | 43 | @ad< "20040225" and biopsy and valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S89 | 0 | @ad< "20040225" and biopsy same valve with ("duckbill") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S90 | 25 | @ad< "20040225" and biopsy and valve with ("duckbill") and vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |

| S91 | 3 | @ad<"20040225" and biopsy and valve with ("duckbill") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
|-----|---|---|---|---|---|---|
| S92 | 2 | @ad<"20040225" and biopsy and valve with ("duckbill") with vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:30 |
| S93 | 35 | (US-20020082519-$ or US-20010014785-$ or US-20040147813-$).did. or (US-6419641-$ or US-6638235-$ or US-3815604-$ or US-4007742-$ or US-4019514-$ or US-4246902-$ or US-5403276-$ or US-5580347-$ or US-5643304-$ or US-5843111-$ or US-5980546-$ or US-6007497-$ or US-6017316-$ or US-6086544-$ or US-6162187-$ or US-6296624-$ or US-4598698-$ or US-4750902-$ or US-5395379-$ or US-4168707-$ or US-4190059-$ or US-4757814-$ or US-4832685-$ or US-4946434-$ or US-5242404-$ or US-5697898-$).did. or (US-5885261-$ or US-6083195-$ or US-6273862-$ or US-5167636-$ or US-5282790-$ or US-5505210-$).did. | US-PGPUB; USPAT | OR | ON | 2010/12/01 09:31 |
| S94 | 4 | S93 and @ad<"20040225" and biopsy and ("check valve") same vacuum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:32 |

| S95 | 51 | @ad<"20040225" and biopsy and valve and ("Y" with (connector bifurcat $4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/01 09:35 |
|-----|----|---|---|---|---|---|

## EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L96 | 2 | (check and valve and biopsy).clm. | USPAT; UPAD | OR | ON | 2011/05/19 08:10 |
| L97 | 0 | (check and valve and biopsy and vacuum).clm. | USPAT; UPAD | OR | ON | 2011/05/19 08:10 |

**5/19/2011 8:10:51 AM**
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